		Application No.	Applicant(s)
		10/627 060	FERMANN ET AL.
	Notice of Allowability	10/627,069 Examiner	Art Unit
	-	5. 55. 5.	0000
		Delma R. Flores Ruiz	2828
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>12/12/2005</u> .			
2. The allowed claim(s) is/are <u>35-49, and 65-112</u> .			
3. [Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 		
	 Certified copies of the priority documents have been received. 		
	2. Certified copies of the priority documents have been received in Application No		
	3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
	International Bureau (PCT Rule 17.2(a)).		
	* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. [CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
	(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
	1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
	Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
	achment(s)	5 Notice of Informal P	Patent Application (PTO 152)
- 1	Notice of References Cited (PTO-892)Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	ratent Application (PTO-152)
۷. ۱	J Notice of Dranperson's Fateric Drawing Review (F10-946)	Paper No./Mail Dat	(P10-413), le
3. [Information Disclosure Statements (PTO-1449 or PTO/SB/0) Paper No./Mail Date	8), 7. 🔀 Examiner's Amenda	nent/Comment
4.	Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🔀 Examiner's Stateme	ent of Reasons for Allowance
	o. Diological material	9. Other	

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark J. Gallagher on 12/27/2005.

The application has been amended as follows:

In claim 42, insert -- said film exhibit multi-temporal relaxation, -- between "absorber mirror" and "wherein".

In claim 65, at the end (just prior to the period) insert -- ,and said film exhibits multi-temporal relaxation. --

Cancel claim 95, and

In claim 97, insert –65 – between "claim" and "wherein".

Allowable Subject Matter

Claims 35 – 49 and 65 – 112 are allowed.

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The following is an examiner's statement of reasons for allowance: Claims 35, 42, 43, 49, 65, and 103 recites an apparatus and method of saturable absorber for passive modelocking of laser structure including the specific structure limitation of *film* exhibit, multi-temporal relaxation, which is neither anticipated or disclosed nor suggested in any piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

Claims 48 and 108 recites an apparatus and method of saturable absorber mirror for passive modelocking of laser structure including the specific structure limitation of high energy ion creating a first trap concentration at a first depth region and a second trap concentration at a second depth region such that said film exhibits saturable absorption governed by a fast time constant and a slow time constant, which is neither anticipated or disclosed nor suggested in any piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lin et al (5,436,925) discloses a by controlling the dosage and energy of ion implantation, the carrier lifetime can be reduce to the value required, but don't show or teach or disclose the film exhibits multi-temporal relaxation.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (571) 272-1940. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on (571) -272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

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Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Delma R. Flores Ruiz

Examiner Art Unit 2828 DRFR/MH

December 27, 2005

Min Sun Harvey Supervisor Patent Examiner

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